

FIGURE 1

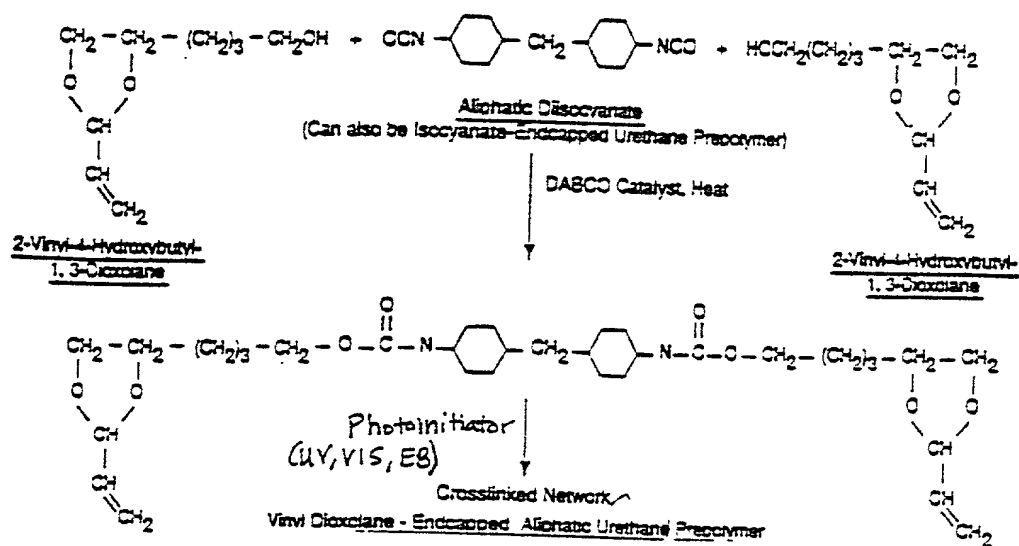


FIGURE 2

00751534-024204

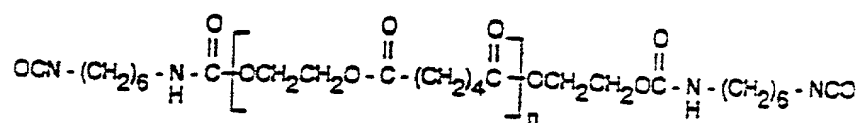
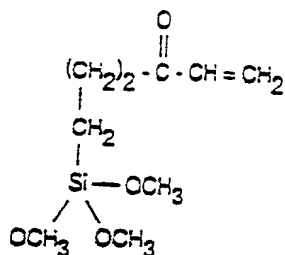
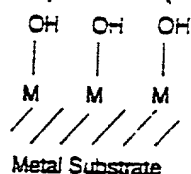
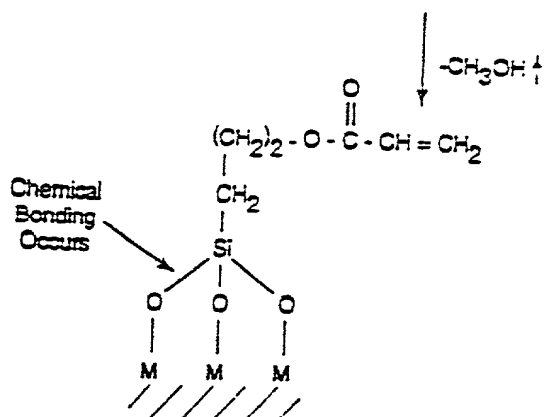


FIGURE 3

Hydroxyl Groups
Present on Surface
Oxide Layer



An Acrylate - Containing Silane Coupling Agent
(Low Volatility and Toxicity)
(Trimethoxy - 3 - Hydroxypropylacrylate)



Radiation
-curable Aircraft Repair Coating
Spray Application and Cure

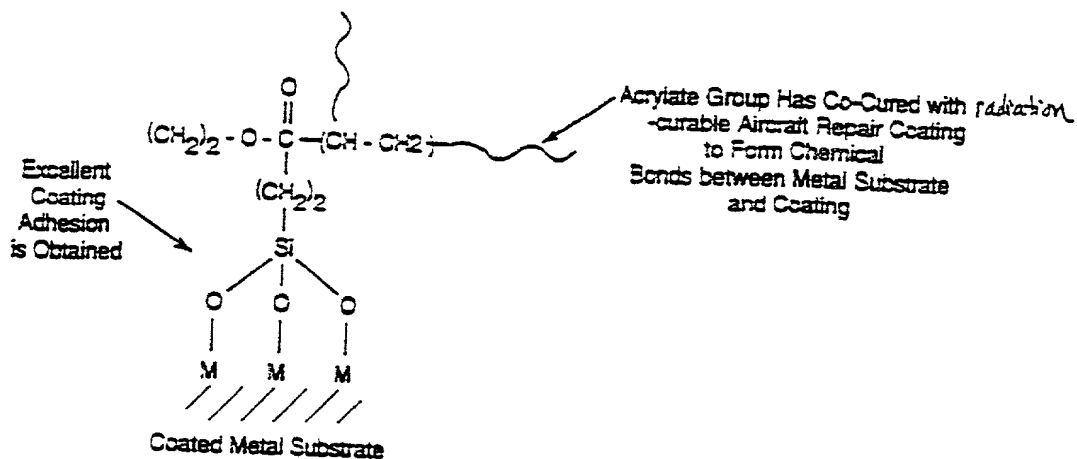


FIGURE 4

102720-20370200

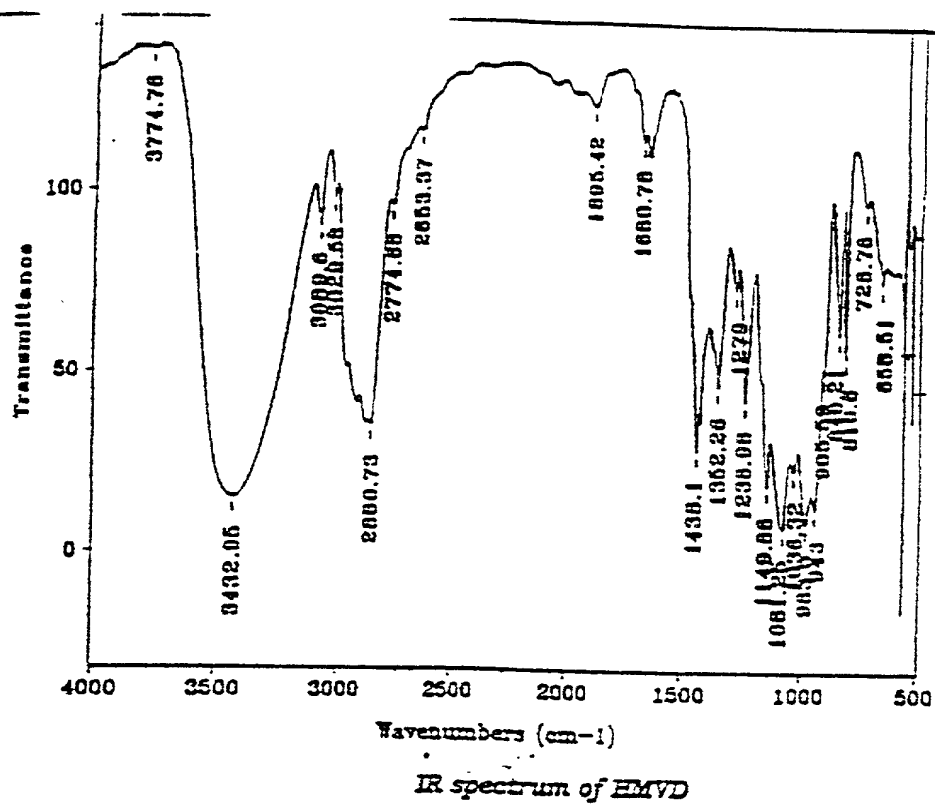
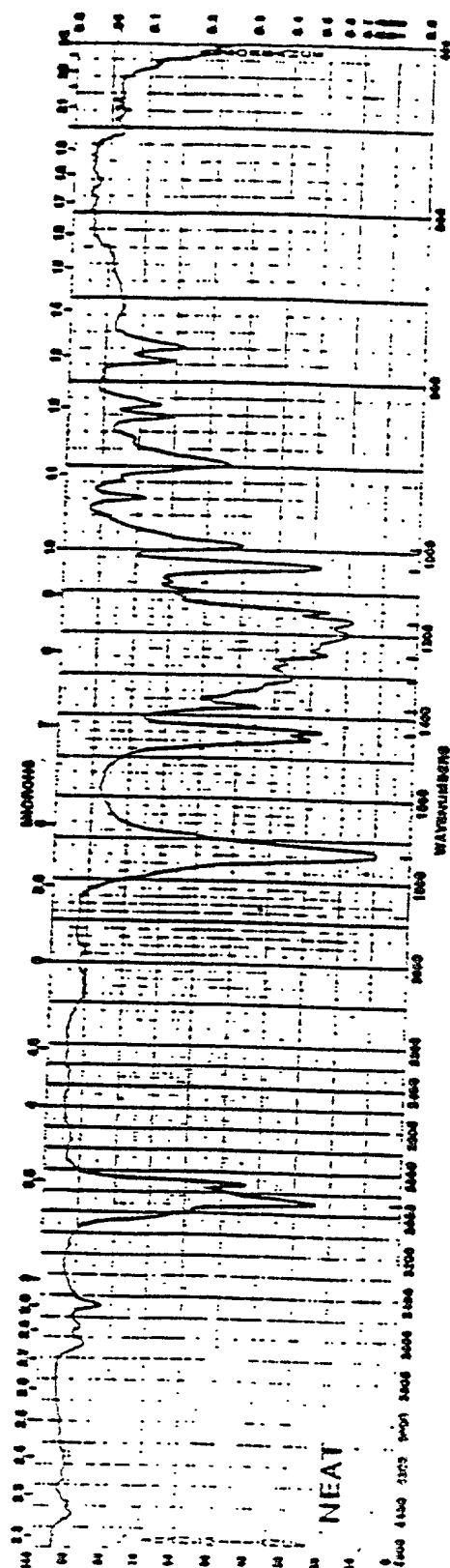


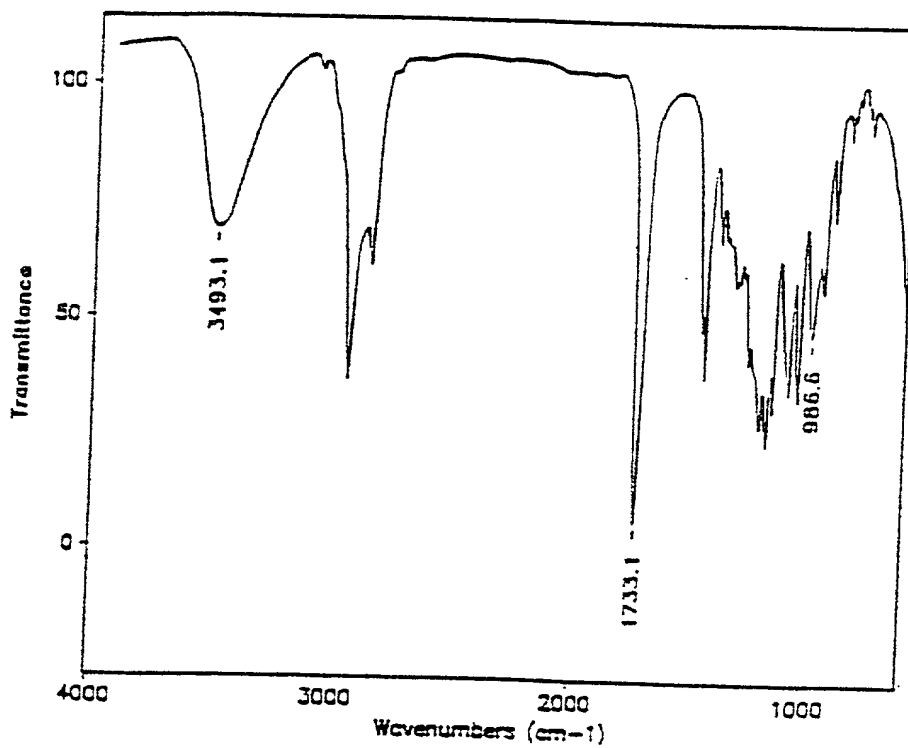
FIG. 5

09781593-034304
FOOTER-28918160



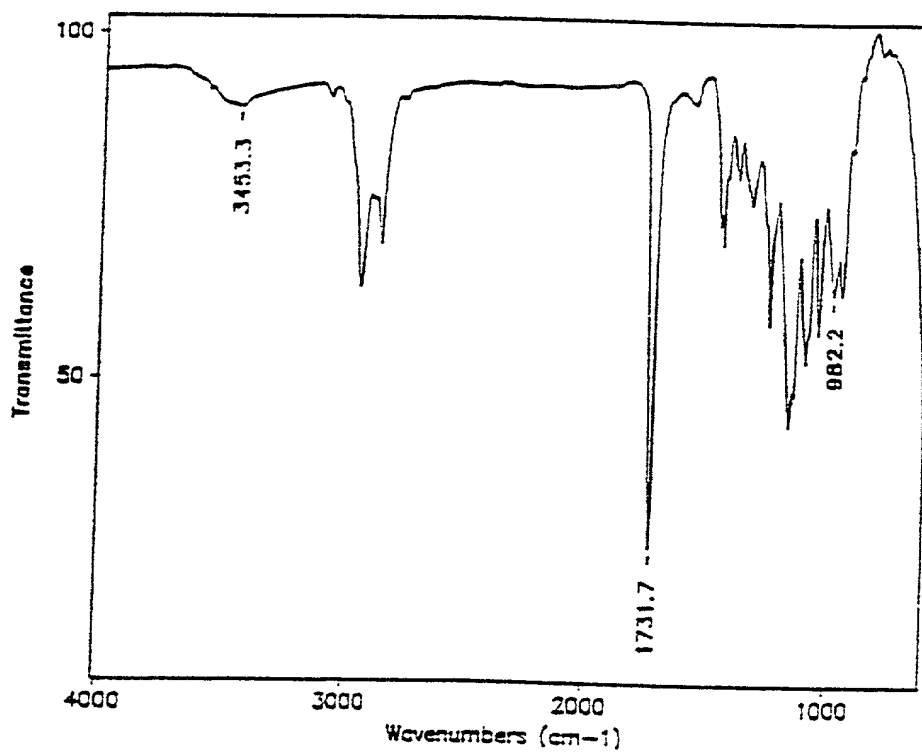
IR spectrum of dimethyl 1,4-cyclohexanedicarboxylate

FIG. 6



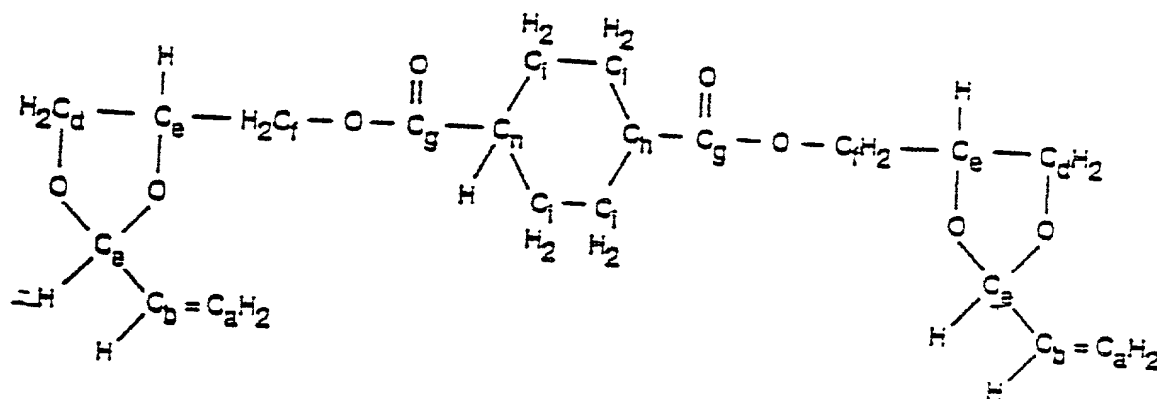
IR spectrum of the reaction dispersion prior to any prepolymer formation

FIG. 7



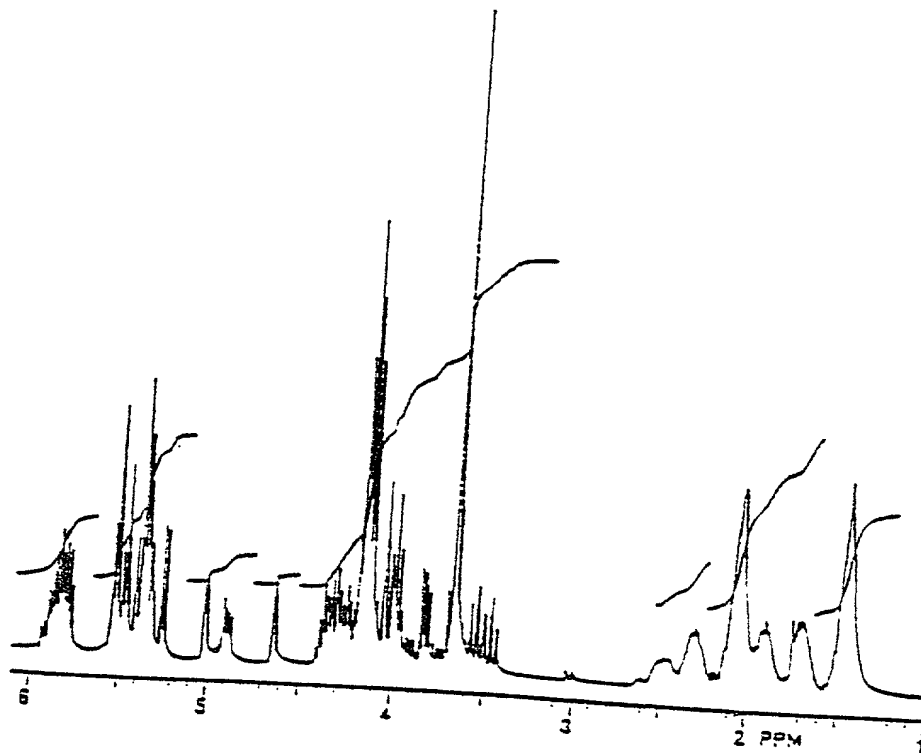
IR spectrum of the reaction dispersion after appreciable amounts of FEVD prepolymer has formed

FIG. 8



Chemical structure of PEVD prepolymer labeled for NMR analysis

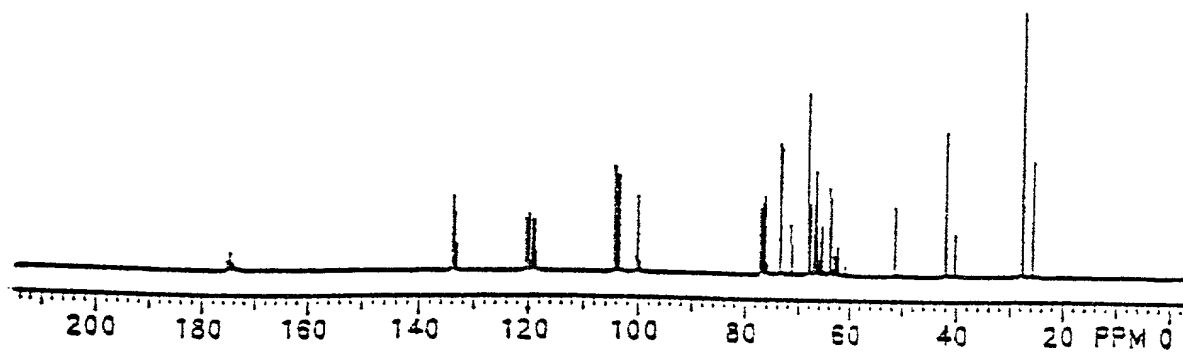
FIG. 9



^1H NMR spectrum of purified PEVD prepolymer

FIG. 10

007459-02401
102420-23518200



^{13}C NMR spectrum of purified PEVD prepolymer

FIG. 11